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WHAT IS CLAIMED IS:

1.	An apparatus for transmitting and receiving radio signals in a pico-BTS (Base station
Transceiver S	System), comprising:

- a plurality of antennas for transmitting and receiving the radio signals, installed in predetermined positions; and
- a plurality of repeaters connected to corresponding ones of said antennas, for controlling levels of the transmission and reception signals to a predetermined level.
- 2. The apparatus as claimed in claim 1, further comprising a plurality of bi-directional amplifiers for compensating for a signal loss, installed in predetermined positions between the repeaters.
- 3. The apparatus as claimed in claim 1, wherein the antennas each comprise a microstrip patch antenna included in the corresponding repeater.
- 4. An apparatus for transmitting and receiving radio signals in a pico-BTS (Base station Transceiver System) with at least one operating frequency, comprising:
 - at least one radio unit for said at least one operating frequency;
- a cable front-end unit for combining the operating frequency output from the radio unit, and distributing a received operation frequency to the radio unit;
 - a plurality of antennas for transmitting and receiving the radio signals, installed in

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- 5. The apparatus as claimed in claim 4, further comprising a plurality of bi-directional amplifiers for compensating for a signal loss, installed in predetermined positions between the repeaters.
- 6. The apparatus as claimed in claim 4, wherein the antennas each comprise a microstrip patch antenna included in the corresponding repeater.
- 7. An apparatus for transmitting and receiving radio signals in a pico-BTS (Base station Transceiver System) having three assigned frequencies, comprising:
- a plurality of radio unit for transmitting and receiving signals on said three assigned frequencies;
- a cable front-end unit for combining transmission signals transmitted on the three assigned frequencies output from the radio units, and dividing a received combination signal to separate reception signals received on the three assigned frequencies for distribution to the radio units;
- a plurality of dividers serially distributed along a coaxial cable connected to said cable frontend unit;
 - a plurality of antennas for transmitting and receiving radio signals, installed in predetermined

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a plurality of repeaters, each being connected between a corresponding one of said plurality of dividers and a corresponding one of said plurality of antennas, to control levels of the transmission and reception signals to a predetermined level.

- 8. The apparatus as claimed in claim 7, wherein the antennas each comprise a microstrip patch antenna included in the corresponding repeater.
- 9. The apparatus as claimed in claim 7, further comprising a plurality of bi-directional amplifiers serially installed along said coaxial cable in predetermined positions between certain ones of said dividers for compensating for a signal loss.
- 10. The apparatus as claimed in claim 7, wherein said a cable front-end unit comprises:
 a combiner for combining said transmission signals transmitted on the three assigned frequencies output from the radio units; and
- a divider for dividing said received combination signal to separate reception signals received on the three assigned frequencies for distribution to the radio units.
- 11. The apparatus as claimed in claim 10, wherein said a cable front-end unit further comprises a duplexer, said duplexer comprising:
- a first bandpass filter for filtering the transmission signals to be applied to said coaxial cable; and

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a second bandpass filter for filtering the reception signals received from said coaxial cable.

- 12. The apparatus as claimed in claim 11, wherein the antennas each comprise a microstrip patch antenna included in the corresponding repeater.
- 13. The apparatus as claimed in claim 12, further comprising a plurality of bi-directional amplifiers serially installed along said coaxial cable in predetermined positions between certain ones of said dividers for compensating for a signal loss.